



FEMA


AECOM

Chautauqua County

***Floodplain Mapping Project
Data Development Kickoff Meeting***

June 22, 2022

**While we are waiting, please enter your name
and community in the chat box!**



***Your engagement
in this process is
important to the
success of this
project, so thank
you for taking the
time to be here
today!***





Introductions



Kansas Department of Agriculture

Tara Lanzrath, CFM
*Floodplain Mapping
Coordinator*

**Joanna Rohlf, CFM,
GISP**
*Floodplain Mapping
Specialist*

William Pace, CFM
*Floodplain Mapping
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AECOM Technical Services, Inc.

Dan Curley
Project Manager

Steve Samuelson, CFM
State NFIP Coordinator

**Cheyenne Sun Eagle,
CFM**
NFIP Specialist

FEMA – Region VII

Dawn Livingston
Regional Project Officer

Hayden Edwards
Engineer



Today's Goals

Today's Goals

Share details on the mapping project

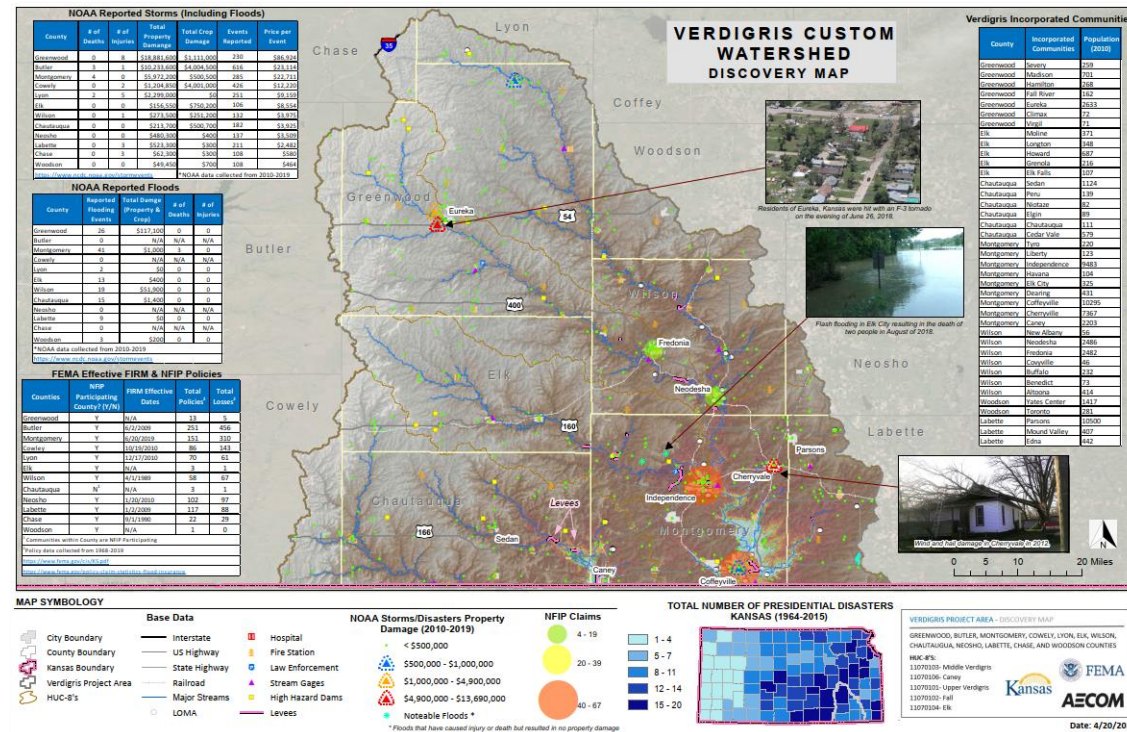
Get initial feedback on modeling methods

Review future steps

Background

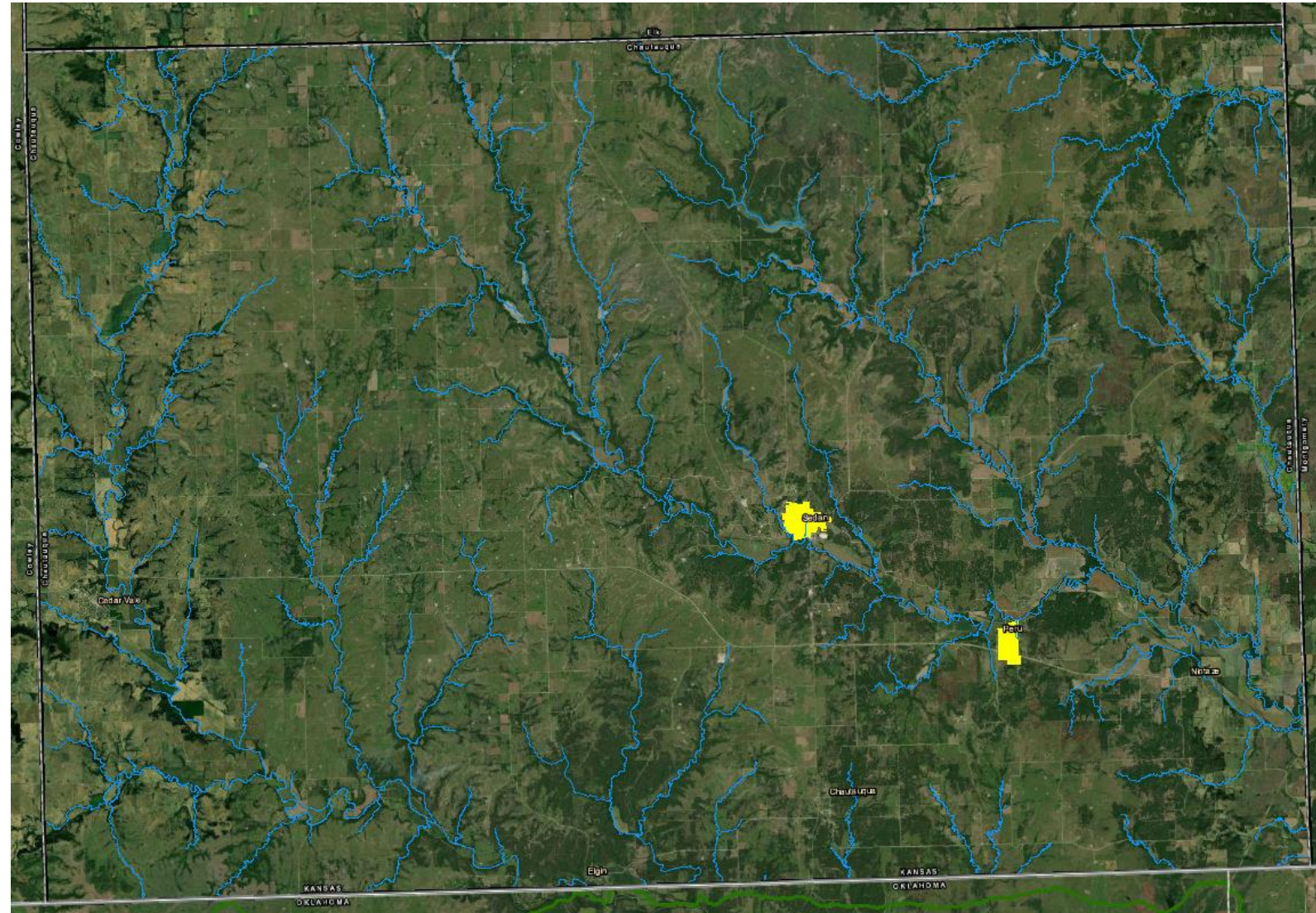
Background

- Verdigris Custom Watershed BLE Project
 - Kick-off Meeting: January 2020*
 - Discovery Meetings and BLE Review: April - May 2020*



Background

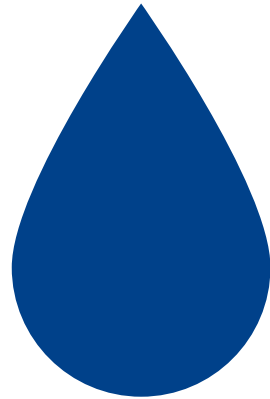
- First-time Countywide
- Effective:
 - Peru – 1975
 - Sedan – 1988
- Mapping is done under the FEMA Risk MAP (Mapping Assessment & Planning) program, which supports the National Flood Insurance Program.





Review of the Work Ahead and How We Propose Doing It

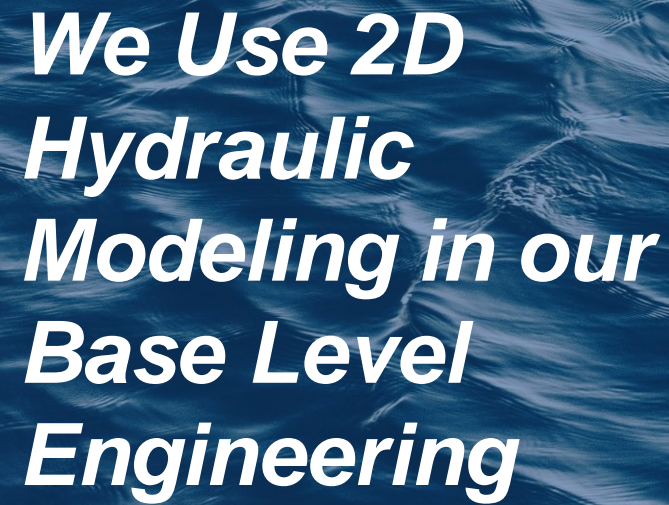
Definitions



Hydrology
How Much Water?

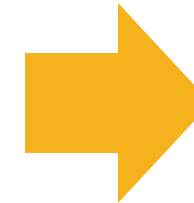
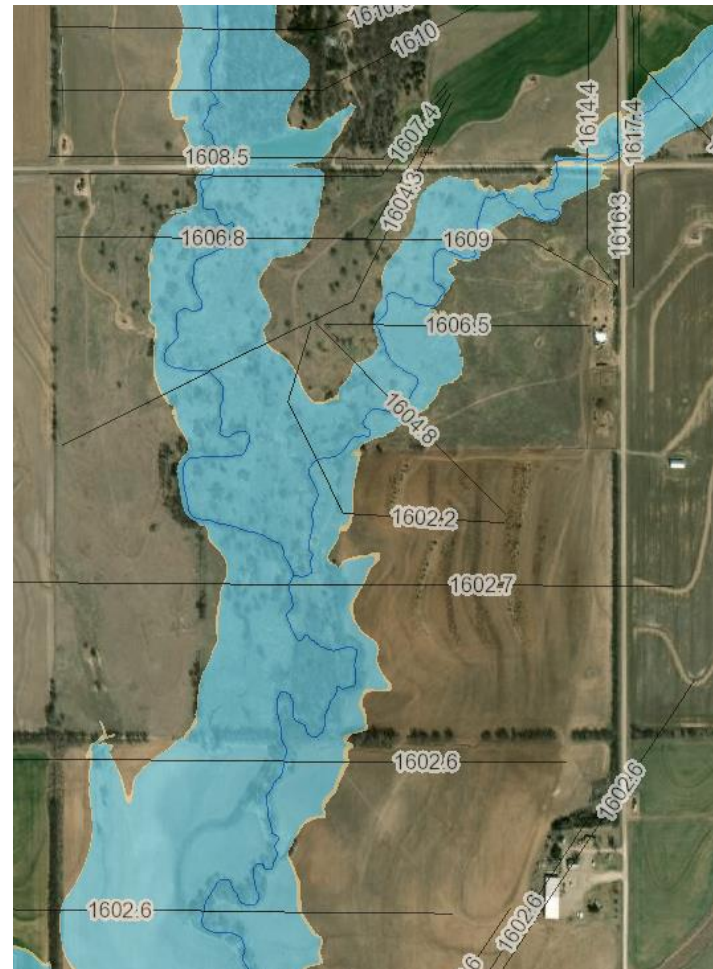


Hydraulics
How High Will Water Get?

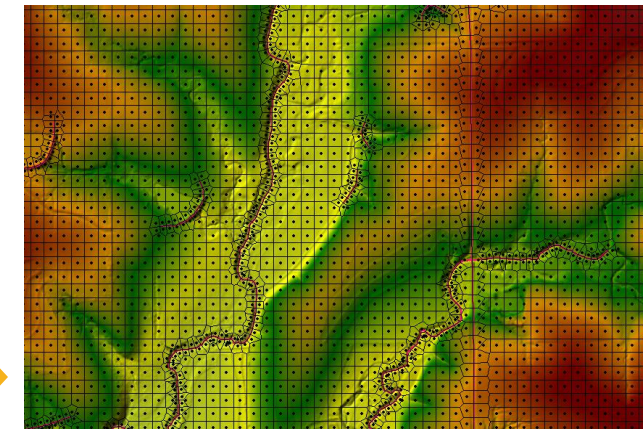


***We Use 2D
Hydraulic
Modeling in our
Base Level
Engineering***

The current maps are done with one-dimensional (1D) modeling. Two-dimensional (2D) modeling will be used for the new modeling.

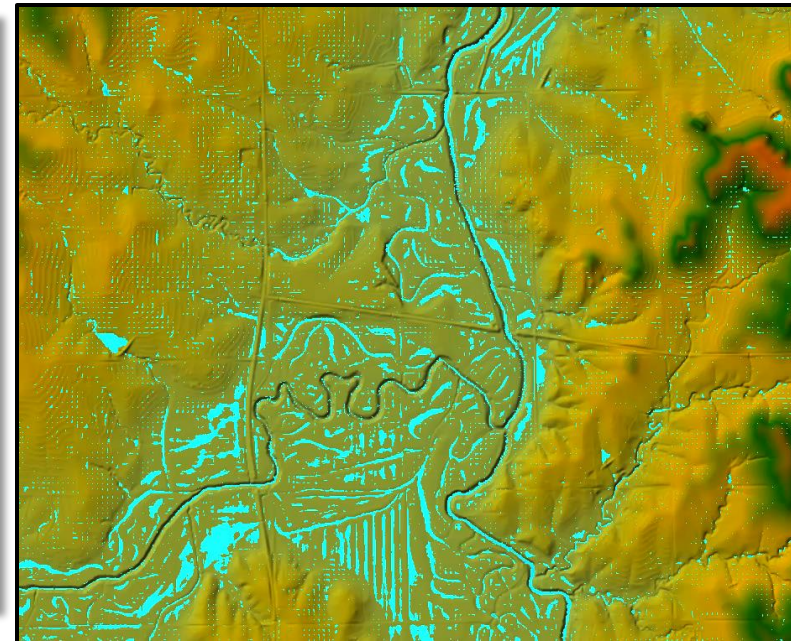
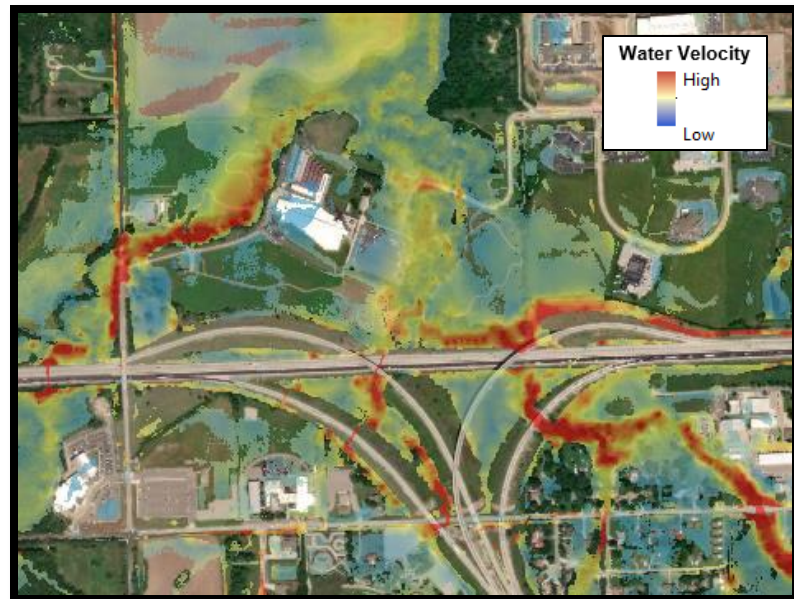
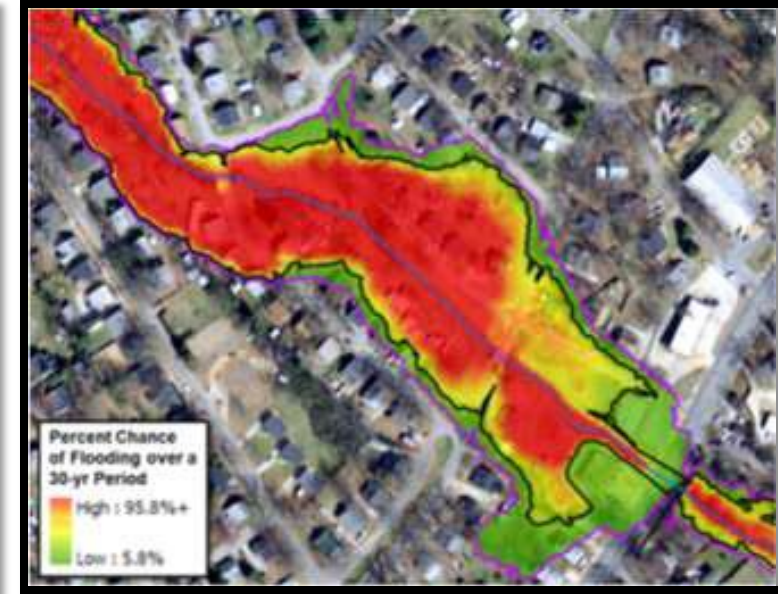
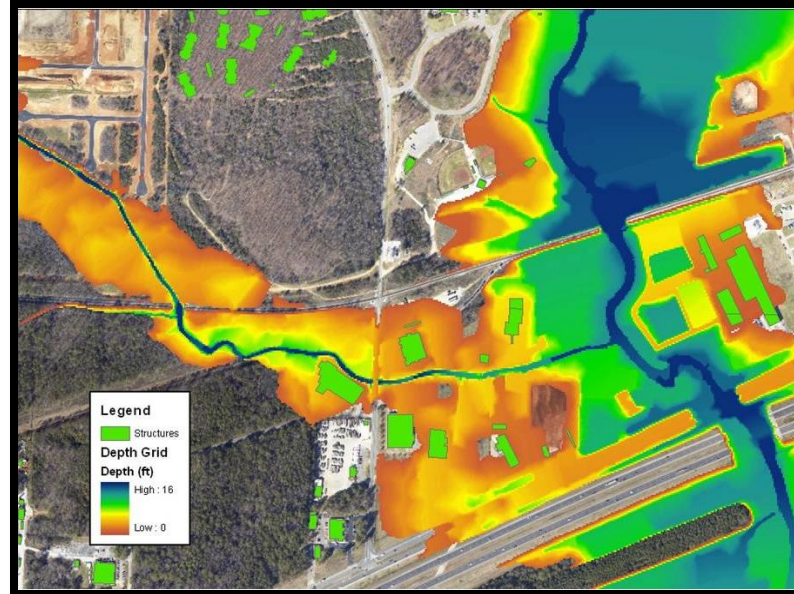


1-D 2-D





*More precise data
and modeling
methods gives
you more
information about
flood risk*






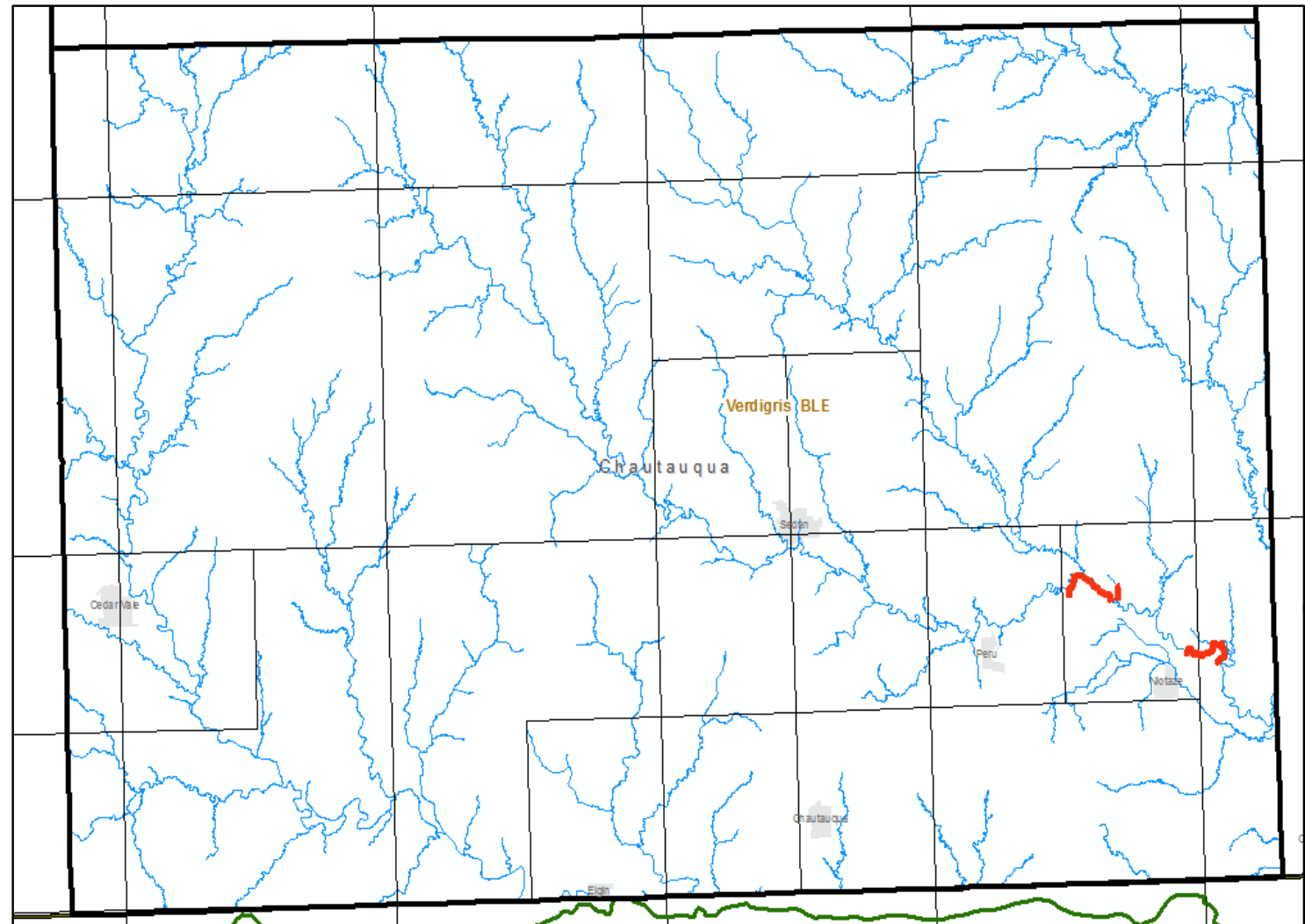
Model Enhancements

- Enhancements can be made to the BLE modeling that was performed.
 - New Lidar, flown in 2018, will be incorporated.
 - Comments made and additional information gathered during the Discovery and Data Development phase can be used to enhance the modeling.
 - With your feedback additional review/refinement of mesh can be done to improve accuracy of modeling.

Data Development Scope

Data Development Scope

- All Zone A 2D BLE (645 mi.)
- 34 FIRM Panels
- Non-Accredited levee (Little Caney River, north and east Niotaze) 

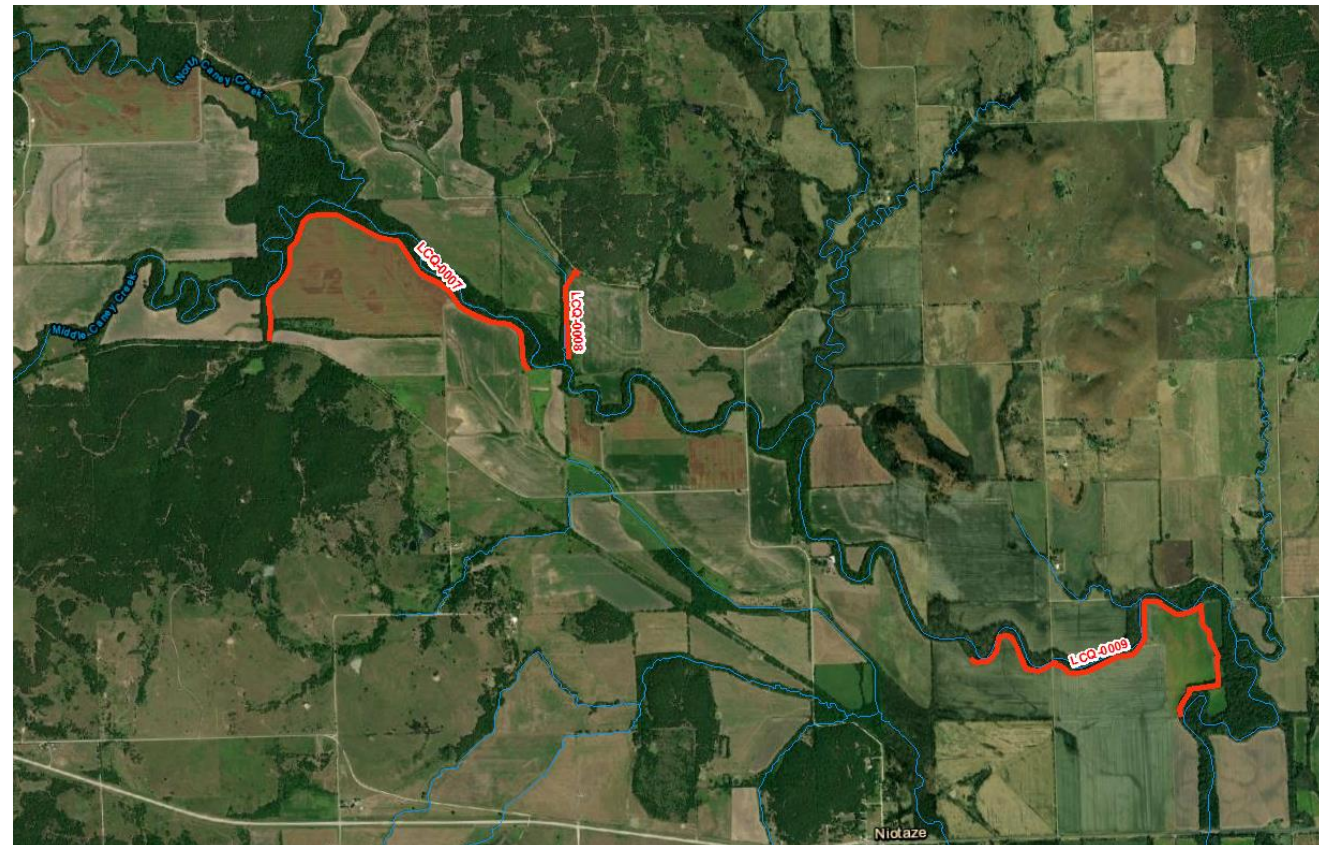




Levees

There are 3 non-accredited levees in the project area. The levee will be considered hydraulically insignificant.

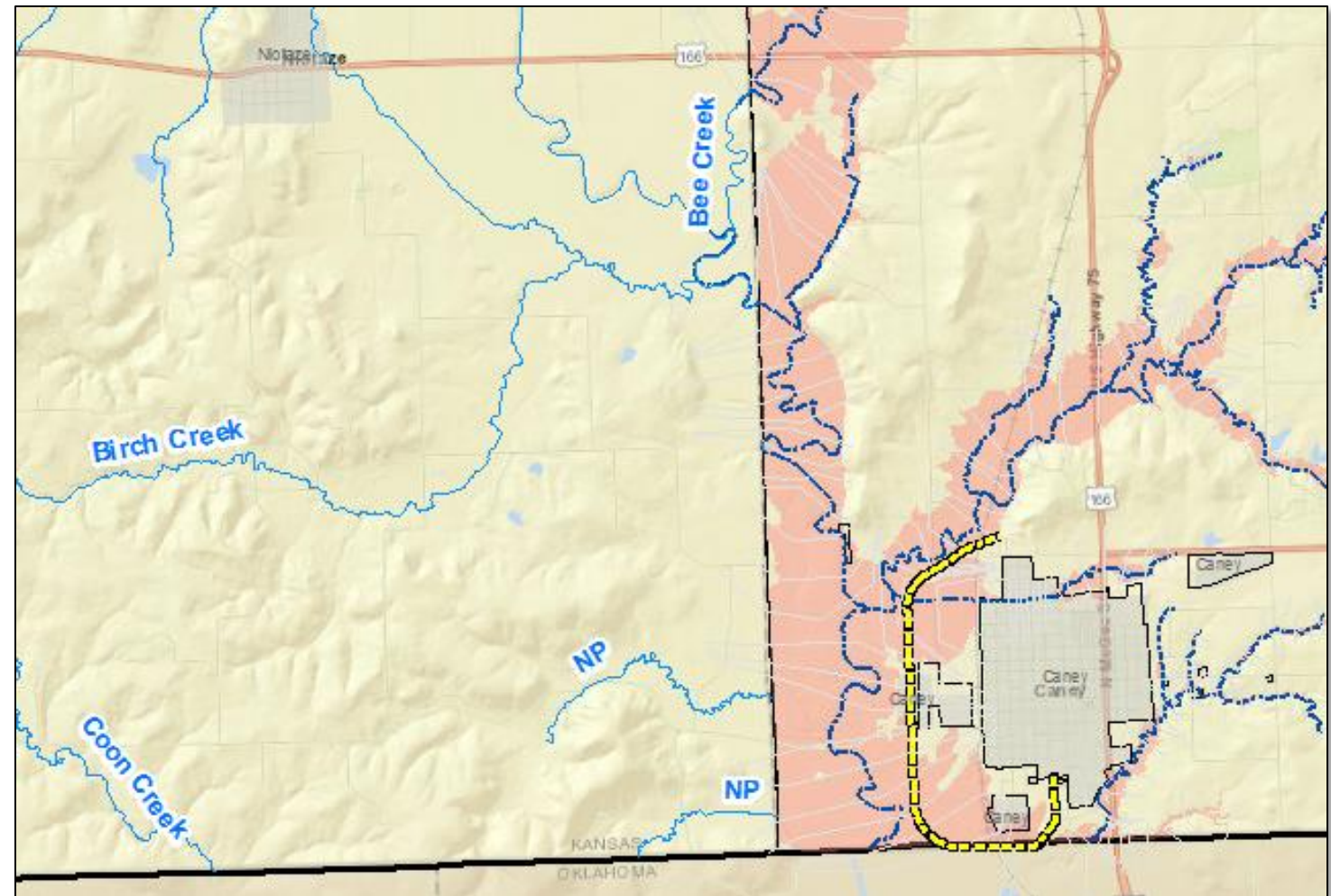
- Non-Accredited levee (Little Caney River, north and east Niotaze)



Data Development Scope

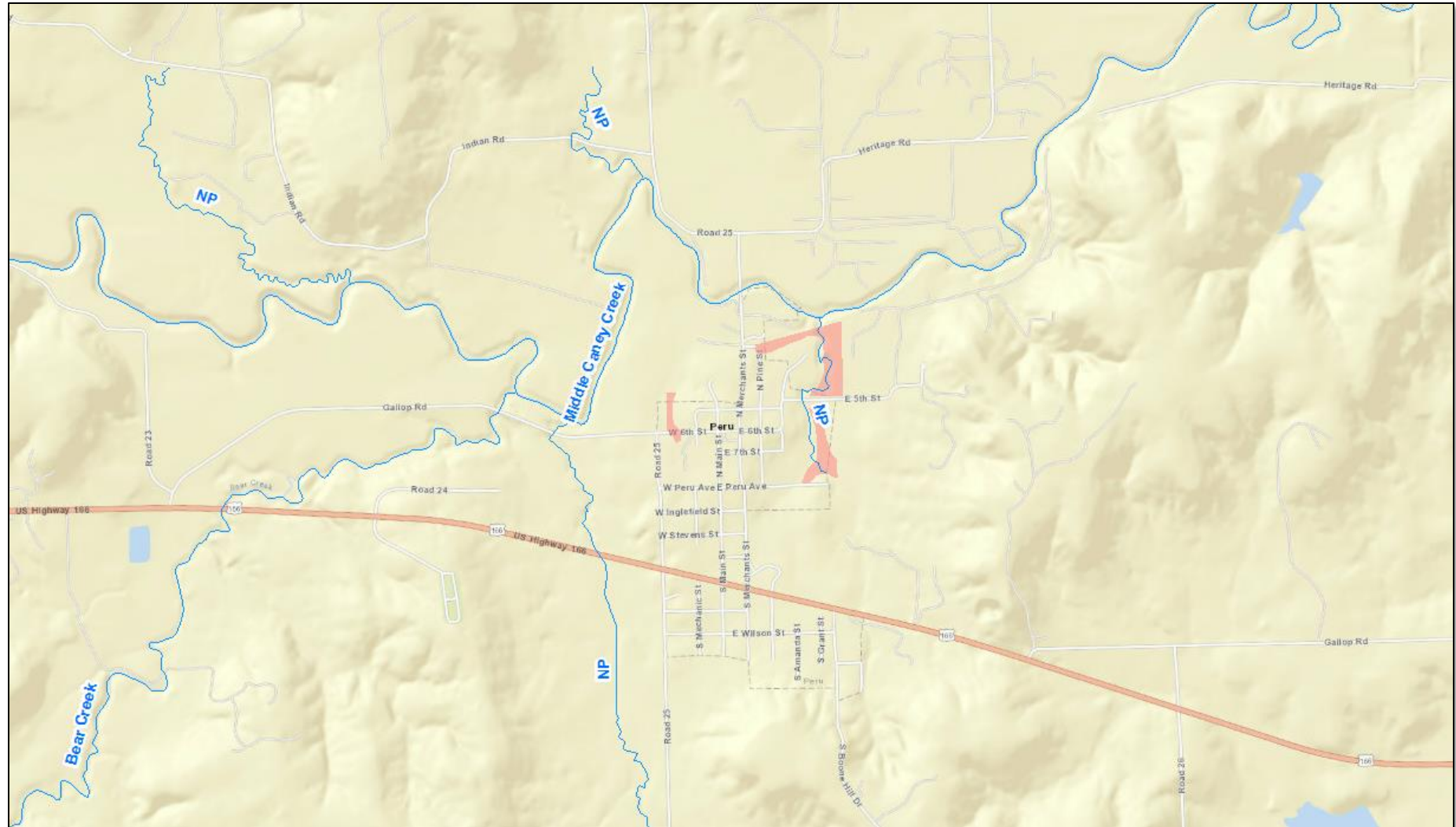
City of Caney, Montgomery County

- Levee Analysis Project Ongoing
 - Zone AE with Floodway
- County edge-matching tie-in on Chautauqua County side.



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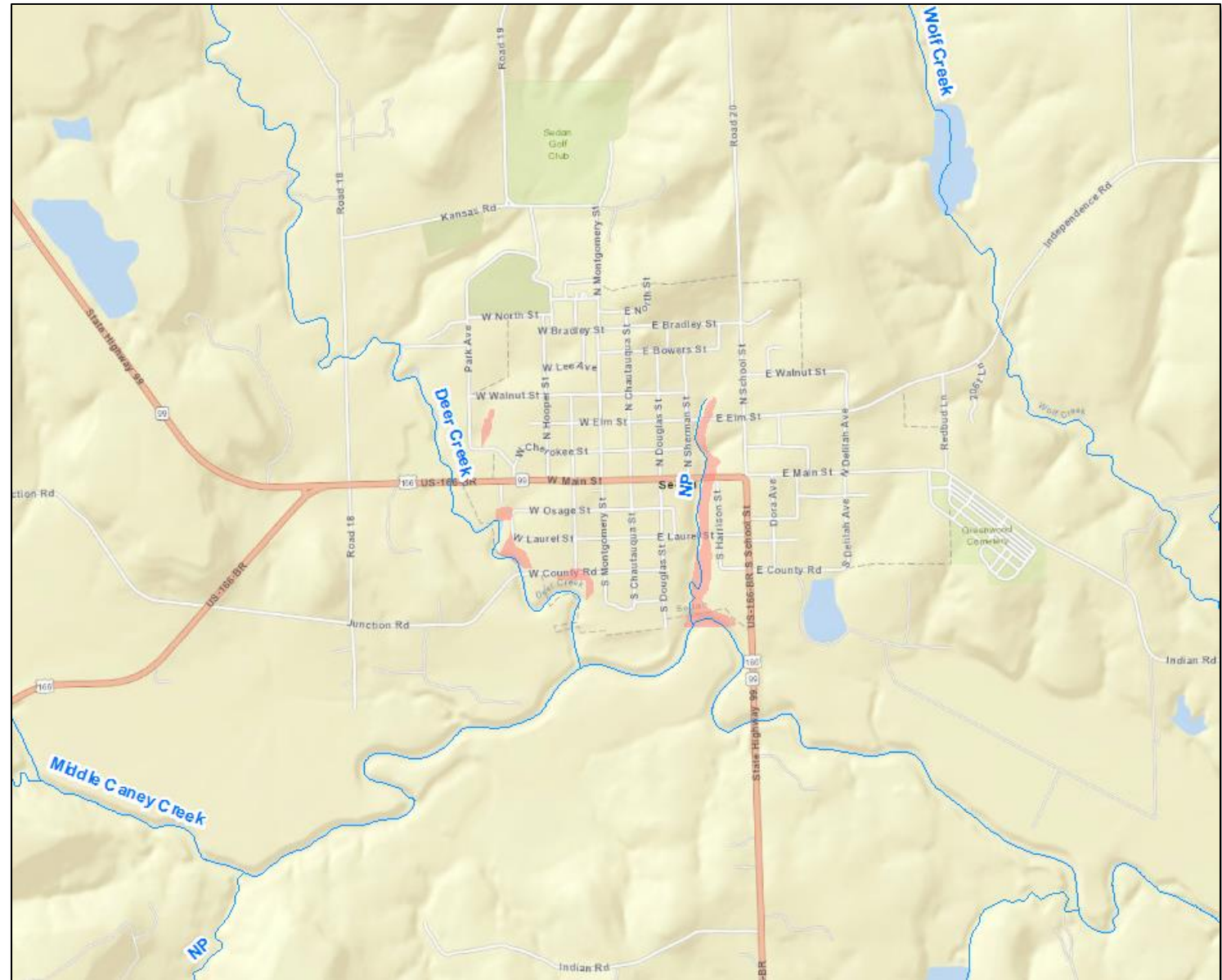
Effective Zone A
(1975) 



Data Development Scope

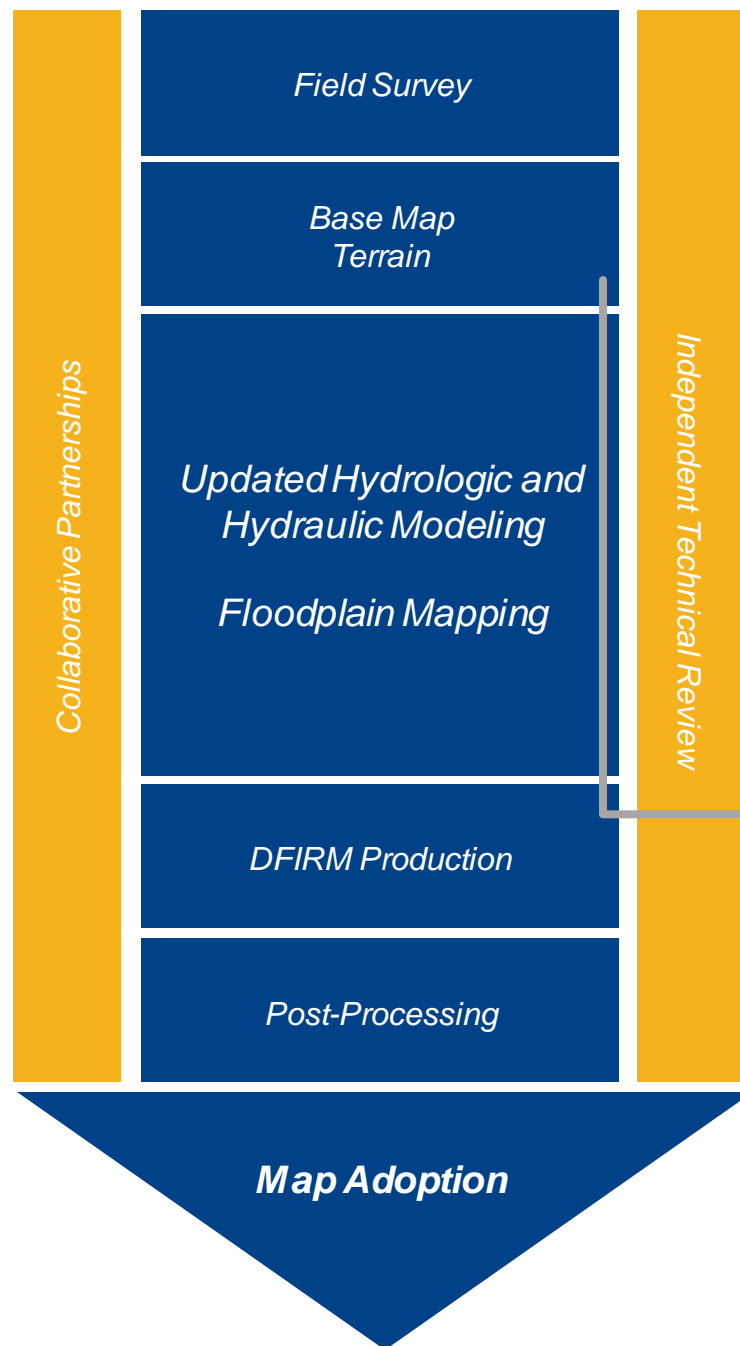
City of Sedan

Effective Zone A
(1988)



Next Steps

Data
Development



Project Tasks

1. Base Map and Topography Preparation
2. Hydrologic and Hydraulic Modeling
3. Floodplain Mapping
4. DFIRM and FIS Production
5. Post-Preliminary

We are about to begin
the modeling task



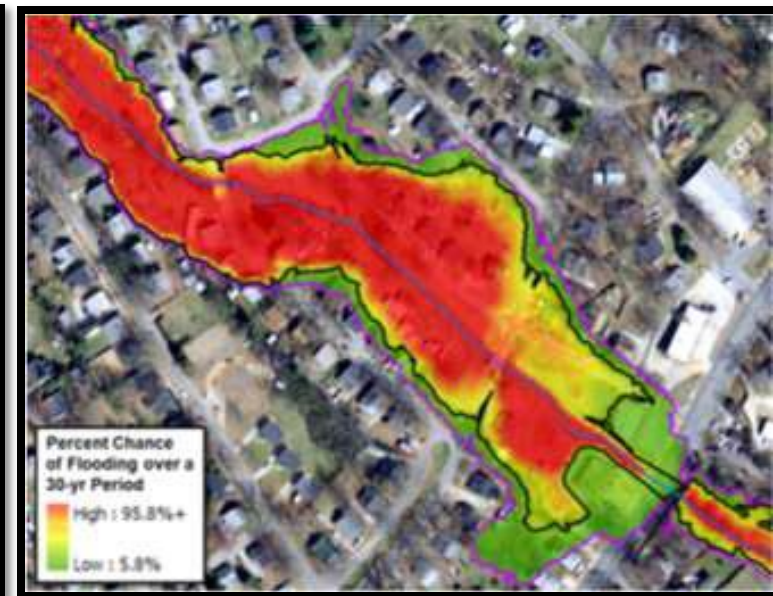
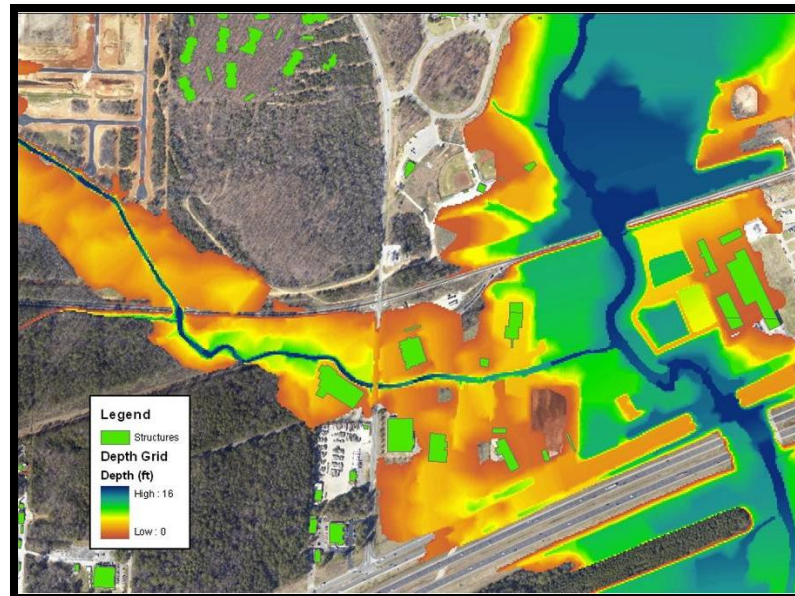
Our Next Steps:

- We will complete the engineering analysis previously described.
- Several rounds of reviews will be completed.
- We will develop your draft regulatory floodplain maps.
 - Also known as your Flood Insurance Rate Map (FIRM)
- We will develop your draft Flood Insurance Study (FIS).
- We will have a community review period and a public review period




Our Next Steps:

- We will also be developing flood risk products for Chautauqua County as part of this project.



Project Timeline



**Kick-off Meeting and
Initial Community
Feedback:**
[TODAY!]

Data Development Work:
[Spring – Summer 2022]

- *Base Map*
- *Topographic Data*
- *Develop Hydrologic and Hydraulic Models*
- *Floodplain Mapping*

**Flood Risk Review
Meeting:**

[~ Sept 2022]

- Your **review** and **feedback** on the draft maps

Project Timeline, continued

Community
comments will
be **addressed**

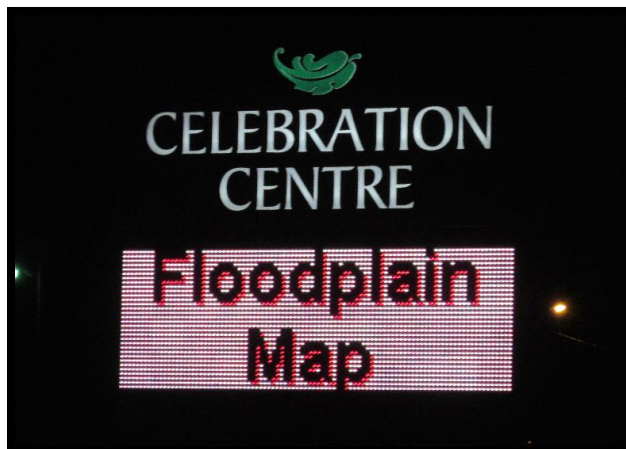
**Public review of
the draft maps**

- *Includes Public
Open House*

**Preliminary Map
Products**

- *Preliminary DFIRM
Community
Coordination Meeting*

**Post-
Preliminary
Processing**





Key Takeaways

Floodplain Mapping Projects take time

Your involvement in this process will result in better flood information for your community

***DON'T HESITATE TO CALL,
WE ARE HERE TO HELP***

Resources

Online Project Information

Project Website

- Scoping Maps, Project Timeline, Meeting Presentations, Newsletters, Technical Reports, Web Review Map
- <https://agriculture.ks.gov/divisions-programs/dwr/floodplain/mapping/mapping-projects/>

Web Review Map

- Provide comments on areas impacted by past floods, community needs, etc.
- Review of floodplain data

Story Maps

- Project Info
- “Floodplain Current”: Mapping Process ‘Nuts and Bolts’



Any Questions?
